**Box & Whisker Worksheet**

EX1) The accompanying box-and-whisker plot represents the cost, in dollars, of twelve CD’s.



1. Which cost is the upper quartile?
2. What is the range of the costs of the CD’s?
3. What is the median?
4. Which cost represents the 100th percentile?
5. How many CD’s cost between $14.50 and $26.00?
6. How many CD’s cost less than $14.50?

EX2) The accompanying box-and-whisker plot represents the scores earned on a math test.



a) What is the median score?

(1) 75 (2) 70 (3) 85 (4) 77

b) What score represents the first quartile?

(1) 55 (2) 70 (3) 100 (4) 75

c) What statement is *not* true about the box and whisker plot shown?

(1) 75 represents the mean score (3) 85 represents the 3rd quartile

(2) 100 represents the maximum score (4) 55 represents the minimum score

d) A score of an 85 on the box-and-whisker plot shown refers to:

(1) the third quartile (3) the maximum score

(2) the median (4) the mean

For questions 1 – 6, refer to the box & whisker graph below which shows the test results of a math class.

**Test Scores (as %) for 6th Period**

38 72 88 96 102

\_\_\_\_\_\_\_\_ 1. What was the high score on the test?

\_\_\_\_\_\_\_\_ 2. What percent of the class scored above a 72?

\_\_\_\_\_\_\_\_ 3. What was the median score on the test?

\_\_\_\_\_\_\_\_ 4. What percent of the class scored between 88 & 96?

5. Do you think that this test was too hard for the students? Explain.

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6. Would you expect the mean to be above or below the median? Explain.

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For questions 7 – 11 refer to the box & whisker graph below that shows how much time was spent per night on homework for sophomore class at a certain high school during September.

**Average Minutes Per Night Spent On Homework**

0 20 48 60 190

\_\_\_\_\_\_\_\_ 7. What percent of the sophomores spend more than 60 minutes on

homework per night?

\_\_\_\_\_\_\_\_ 8. What is the range of times that the middle 50% of the sophomores

spend on homework per night?

\_\_\_\_\_\_\_\_ 9. How many sophomores do not do homework?

\_\_\_\_\_\_\_\_ 10. What percent of the sophomores spend less than 20 minutes per night

on homework?

11. Would you expect the mean number of minutes per night to be higher or lower than

the median? Explain.

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For questions 12 – 14, refer to the box & whisker graphs below that compare homework time per night with TV time per night for the same group of sophomores.

**TV & Homework Minutes per Night**

Homework Time

0 20 48 60 190

TV Time

0 15 60 110 225

\_\_\_\_\_\_\_\_ 12. What percent of the sophomores watch TV for at least 15 minutes per night?

\_\_\_\_\_\_\_\_ 13. What is the 3rd quartile for the TV time data?

14. Is it more common for a sophomore at this high school to spend more than 1 hour on homework

or more than 1 hour watching TV? Explain.

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15) The accompanying stem-and-leaf plot represents Sean’s test scores this year.

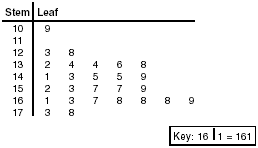


What is the median score for this set of data?

(1) 73 (3) 80

(2) 79 (4) 81

16) Chuckie made the accompanying stem-and-leaf plot of the weights, in pounds, of each member of the wrestling team he was coaching.



What is the mode of the weights?

(1) 145 (3) 152

(2) 150 (4) 168